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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.06/KRIDL/CUBE/2013-14

26.05.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager - 1,** KRIDL, Bangalore.
Name of the work	: Improvements to roads and drains at Bhuvaneshwarinagara Main Road Right Side in Ward No.06, Dasarahalli Village limits, BBMP, Bangalore.
Reference	: AEE/BTP/(WO)/03/2014-15 Dated: 26.04.2014
Sample ID	: Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.04.2014	26.05.2014	8.364	497.8	22.12
2	28.04.2014	26.05.2014	8.275	485.3	21.57
3	28.04.2014	26.05.2014	8.462	502.9	22.35

Note:

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2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು-24

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Job No.: CTCE/BBMP/W.No.06/KRIDL/WMM/Gradation/2013-14

03.05.2014

GRADATION FOR WMM
MORTH TABLE-400-11

Client : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Technical Manager - 1,** KRIDL, Bangalore.

Name of Work : Improvements to roads and drains at Bhuvaneshwarinagara Main Road Right Side in Ward No.06, Dasarahalli Village limits, BBMP, Bangalore.

Reference : AEE/BTP/(WO)/03/2014-15 Dated: 26.04.2014

Date of Testing : 03.05.2014

Material : WMM

Sample Location : WMM Mix Plant

Oven Dry Wt (gm): **25500**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	980	980	3.8	96.2	95-100
22.4	6135	7115	27.9	72.1	60-80
11.2	5545	12660	49.6	50.4	40-60
4.75	4160	16820	66.0	34.0	25-40
2.36	3770	20590	80.7	19.3	15-30
0.600	2185	22775	89.3	10.7	8-22
0.075	2440	25215	98.9	1.1	0-8

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Job No.: CTCE/BBMP/W.No.06/KRIDL/SDBC/Bitumen/2014-15 10.05.2014

BITUMEN CONTENT AND GRADATION DETERMINATION OF SEMI DENSE BITUMINOUS CONCRETE MIX

AASHTO T 164 & AASHTO T 30

CLIENT	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
AGENCY	**Technical Manager - 1,** KRIDL, Bangalore.
NAME OF THE WORK	Improvements to roads and drains at Bhuvaneshwarinagara Main Road Right Side in Ward No.06, Dasarahalli Village limits, BBMP, Bangalore.
REFERENCE	AEE/BTP/(WO)/03/2014-15 Dated: 26.04.2014
SAMPLE I/D	Roads and Drains at Bhuvaneshwarinagara W.No.06
DATE OF TESTING	10.05.2014

BITUMEN CONTENT DETERMINATION

Description	Trail 1	Trail 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	475.5	475
3. Weight of Asphalt and Mineral matter Extracted,	-	-
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g		
6. Weight of Bitumen Extracted, g. (corrected)	24.5	25.00
7. Bitumen content in %	4.90	5.00
8. Average	4.95	

GRADATION AFTER EXTRACTION

SIEVE SIZE	Trail 1				JOBMIX
mm	Weight Retained, gm	% Retained	%Cummulative Retained	% Passing	Gradation
13.2	0	0	0	100	100
9.5	38.65	8.13	8.13	91.87	90-100
4.75	269.3	56.64	64.76	35.24	35-51
2.36	45.12	9.49	74.25	25.75	24-39
1.18	42.63	8.97	83.22	16.78	15-30
0.3	33.54	7.05	90.27	9.73	9-19
0.075	31.52	6.63	96.90	3.10	3-8

SIEVE SIZE	Trail 2				JOBMIX
mm	Weight Retained, gm	% Retained	%Cummulative Retained	% Passing	Gradation
13.2	0	0	0	100	100
9.5	42.32	8.46	8.46	91.54	90-100
4.75	278.3	55.66	64.12	35.88	35-51
2.36	52.36	10.47	74.60	25.40	24-39
1.18	45.87	9.17	83.77	16.23	15-30
0.3	32.63	6.53	90.30	9.70	9-19
0.075	29.52	5.90	96.20	3.80	3-8

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